HITACHI
SERVICE MANUAL

YK	No.0373E

CT7892B/K

NTSC	G9LXU Chassis	R/C:CLU-570PR

This service manual only gives differences between the CT7892B/K and CT7881B/K. For any other information, see the CT7881B/K Service Manual (No. 0354E) issued in March, 1990.

REPLACEMENT PARTS LIST

This parts list only gives parts which are different from these of the CT7881B/K.

PRODUCT SAFETY NOTE: Components marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
	3811813	VR-DOOR B (HCPA)		3142271	SPEAKER GRILLE ASS'Y R (HCPA)
	3811814	VR-DOOR K (HCPA)		3142261	SPEAKER GRILLE ASS'Y L (HCPA)
	3122631	CABINET ASS'Y B (HCPA)	⚠SP453	2410794	SPEAKER (HCPA)
	3122632	CABINET ASS'Y K (HCPA)	⚠SP454	2410794	SPEAKER (HCPA)

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT.

SOLID STATE COLOR TELEVISION

June 1990 **YOKOHAMA WORKS**

HITACHI

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SERVICE MANUAL

YK | No.0373E-1

CT7892B/K

NTSC | G9LXU Chassis

R/C:CLU-570PR

SUPPLEMENT

The CT7892B/K has been modified in some points to improve performance.
This service manual only covers the points modified. When servicing, therefore, please use this manual with the CT7892 B/K service manual (YK No. 0373E) issued in June, 1990.

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SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT.

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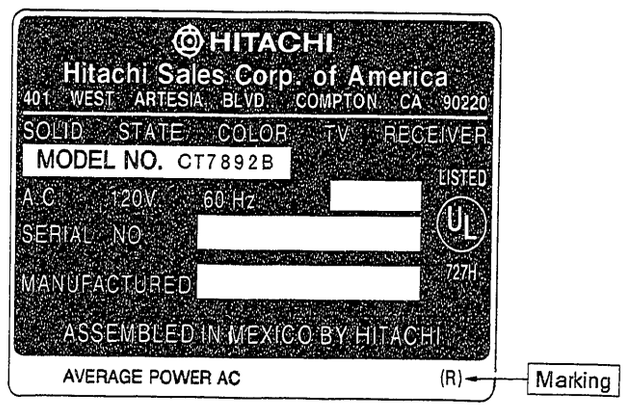
REASON AND START OF MODIFICATIONS

1. Reason: To improve performance
2. Start: Products manufactured in October, 1990

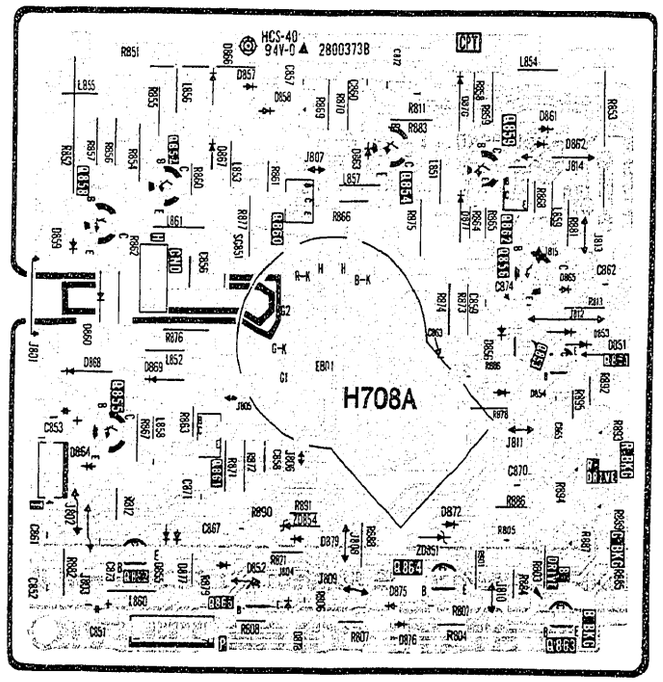
CLASSIFICATION OF MODELS

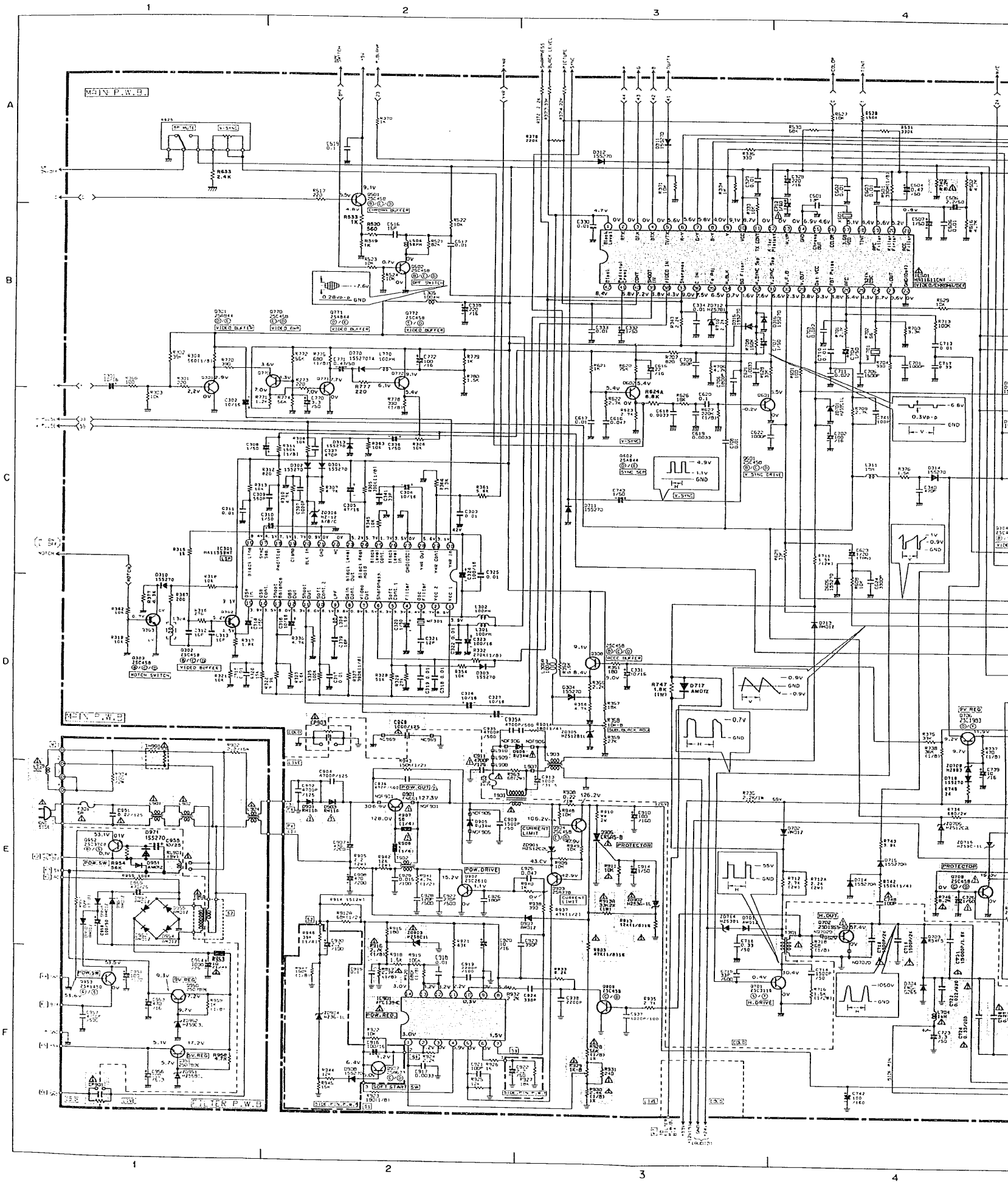
1. Marking on Rating plate
   The rating plate (on the back cover) applied to the model modified is marked "(R)" as shown below:



2. Marking on CPT P.W.B. Copper Foil
   The CPT P.W.B. Copper foil of the model modified is stamped "H708A" in blackink. Please service the product after checking this marking.

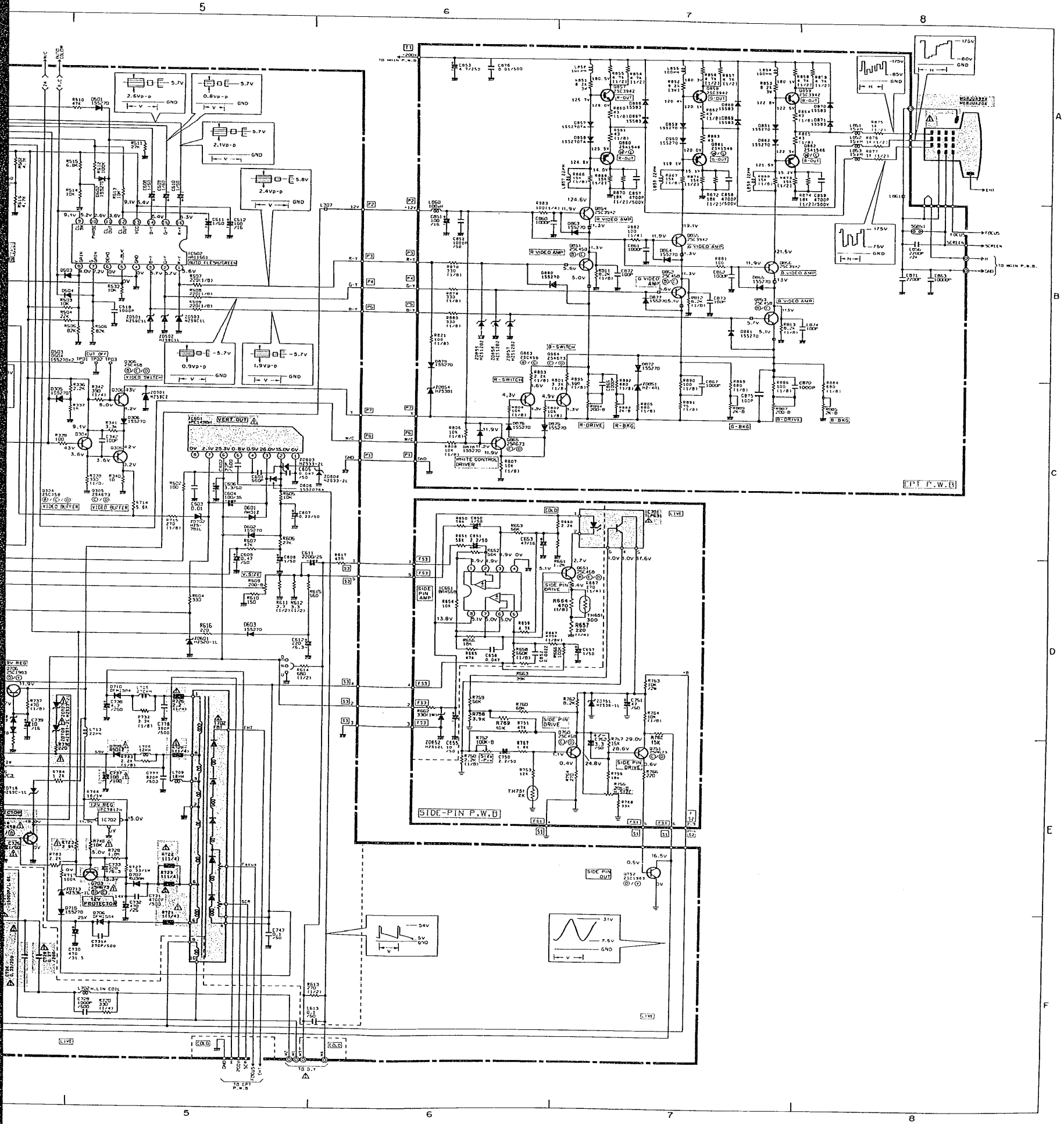
CPT P.W.B.




MAIN P.W.B.
FILTER P.W.B.
SIDE PIN P.W.B.
VIDEO BUFFER
CHROMA BUFFER
VIDEO GND
NOTCH SWITCH
DEF SWITCH
SYNC SEP
V SYNC DRIVE
H.DRIVE
ACCC BUFFER
PROTECTOR
CURRENT LIMIT
POW.OUT
POW.DRIVE
POW.REG
SOFT START
9V REG
5V REG
BV REG
IC301 RA11559MT
IC901 TC1394
IC501 M51611CNT
0.28Vp-p GND
0.3Vp-p GND
4.9V 1.1V GND
-0.9V GND -0.9V
-0.7V GND
55V GND
1050V GND
-1V -0.9V -GND
9.1V
4.8V
7.6V
7.0V
6.1V
5.4V
3.6V
2.9V
2.2V
0.7V
0V
4.7V
8.4V
6.8V
7.2V
8.8V
8.3V
9.0V
8.5V
6.5V
7.0V
7.6V
6.6V
2.3V
0.8V
9.3V
8.8V
6.4V
4.3V
5.7V
0.6V
306.9V
128.0V
127.3V
126.2V
106.2V
43.6V
15.2V
3.0V
1.5V
0.3V
53.1V
53.5V
53.6V
17.2V
5.1V
5.2V
9.2V
7.2V
57.4V
30.4V
0.4V
6.4V
1.2V
1.0V
0.9V
3.5V
3.1V
2.8V
2.6V
2.4V
2.0V
1.7V
1.4V
1.3V
1.1V
0.8V
0.6V
0.5V
0.2V
-0.2V
42V

BASIC CIRCUIT DIAGRAM

PRODUCT SAFETY NOTE: Components marked with a ⚠ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver though improper servicing.



- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.
- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.

REPLACEMENT PARTS LIST

This parts list indicates differences before and after the modifications.

PRODUCT SAFETY NOTE: Components marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

ABBREVIATIONS:
Capacitors·····CD: Ceramic disk, PF: Polyester film, EL: Electrolytic, PP: Polypropylene, PR: Paper, TA: Tantalum, TM: Trimmer.
Resistors·····CF: Carbon film, CC: Carbon composition, MF: Metal oxide film, VR: Variable resistor, WW: Wire would, FR: Fuse resistor, MG: Metal glazed.
Semiconductor····TR: Transistor, DI: Diode, ZD: Zener diode, VA: Varistor, TH: Thermistor, IC: IC

AFTER CHANGE			BEFORE CHANGE		
SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
CAPACITORS					
C710	0880044	PF 0.01MF ±10% 50V	C710	0880039	PF 4700PF ±10% 50V
C713	0880044	PF 0.01MF ±10% 50V	C713	0880051	PF 0.033MF ±10% 50V
C716	0880019	PF 0.33MF ±10% 50V	C716	0800003	EL 1MF ±20% 50V
C717	0880019	PF 0.33MF ±10% 50V	C717	0880057	PF 0.1MF ±10% 50V
C731A	0243506	CD 270PF ±10% 500V	C731A		Not used
C741	0890074	CD 100PF ±5% 50V	C741	0244116	CD 180PF ±10% 50V
C749		Not used	C749	0880019	PF 0.33MF ±10% 50V
C909	0244503	CD 1500PF ±10% 50V	C909	0243512	CD 820PF ±10% 500V
C924	0890081	CD 330PF ±10% 50V	C924		Not used
C935	0244565	CD 4700PF $\pm^{100}_{0}$% 500V	C935	0244505	CD 2200PF ±10% 500V
C935A	0244565	CD 4700PF $\pm^{100}_{0}$% 500V	C935A		Not used
C936	0243509	CD 470PF ±10% 500V	C936		Not used
C937	0299001	PP 0.001MF ±2% 100V	C937		Not used
C938	0880035	PF 2200PF ±10% 50V	C938		Not used
C958	0800053	EL 100MF ±20% 50V	C958	0800077	EL 470MF ±20% 50V
RESISTORS					
R710	0700045	CC 2.2K OHM ±5% 1/16W	R710	0700032	CF 220 OHM ±5% 1/16W
R715	0100123	CF 270K OHM ±5% 1/8W	R715	0100131	CF 560K OHM ±5% 1/8W
⚠R729	0700048	CC 3.9K OHM ±5% 1/16W	⚠R729	0700045	CF 2.2K OHM ±5% 1/16W
R742	0114285	CF 150K OHM ±5% 1/4W	R742	0114281	CF 100K OHM ±5% 1/16W
R743	0700048	CC 3.9K OHM ±5% 1/16W	R743	0700056	CF 15K OHM ±5% 1/16W
R783	0700045	CC 2.2K OHM ±5% 1/16W	R783		Not used
R784	0700042	CC 1.2K OHM ±5% 1/16W	R784		Not used
R905	0110253	MF 2.2K OHM ±5% 2W	R905	0110258	MF 3.6K OHM ±5% 2W
R905A		Not used	R905A	0113768	CF 5.6K OHM ±5% 1/2W
R906	0119512	FR 1 OHM ±5% 1/4W	R906	0100001	CF 2.2 OHM ±5% 1/8W
R907	0119508	FR 56 OHM ±5% 1/4W	R907	0100033	CF 47 OHM ±5% 1/8W
R921	0187104	CF 43K OHM ±5% 1/16W	R921	0119640	MF 24K OHM ±1% 1/8W
R932	0700045	CC 2.2K OHM ±5% 1/16W	R932		Not used
R933	0700053	CC 8.2K OHM ±5% 1/16W	R933		Not used
R935	0119617	MF 2.7K OHM ±1% 1/8W	R935		Not used
R936		Not used	R936	0100001	CF 2.2 OHM ±5% 1/8W
R942	0110271	MF 12K OHM ±5% 2W	R942	0110277	MF 22K OHM ±5% 2W
R942A		Not used	R942A	0110279	MF 27K OHM ±5% 2W
IC					
IC702	2366701	IC μPC7812H	IC702	2380423	IC MC7812CT

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AFTER CHANGE			BEFORE CHANGE		
SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
TRANSISTORS					
Q901	2328455	TR FN651	Q901	2328454	TR FN651-B/R/O/Y
Q906	2320596	TR 2SC458C/D	Q906		Not used
DIODES					
D718	2338321	DI 1SS270	D718		Not used
D851		Not used	D851	2338321	DI 1SS270
D852		Not used	D852	2338321	DI 1SS270
D853		Not used	D853	2338321	DI 1SS270
D854		Not used	D854	2338321	DI 1SS270
D855		Not used	D855	2338321	DI 1SS270
D856		Not used	D856	2338321	DI 1SS270
D880	2338321	DI 1SS270	D880		Not used
D881	2338321	DI 1SS270	D881		Not used
D956		Not used	D956	2339491	DI AM01Z
D959		Not used	D959	2339491	DI AM01Z
ZD709	2331826	ZD HZ-9B3	ZD709	2339023	ZD HZS6B3L
ZD710		Not used	ZD710	2331785	ZD HZ4(B2)
ZD714	2339814	ZD HZS3B1	ZD714		Not used
ZD716	2339091	ZD HZS9C1L	ZD716		Not used
ZD855	2339885	ZD HZS12B2	ZD855		Not used
ZD856	2339885	ZD HZS12B2	ZD856		Not used
ZD857	2339885	ZD HZS12B2	ZD857		Not used
ZD901	2339152	ZD HZS12C2L	ZD901	2339121	ZD HZS11C1L
TRANSFORMERS					
⚠T901	2215402	POWER TRASFORMER	⚠T901	2215401	POWER TRANSFORMER
COILS					
L311	2122969	LA AXIAL COIL 1MH	L311		Not used
L504	2122953	LA AXIAL COIL 56MH	L504	2122951	LA AXIAL COIL 39MH ±10%
L710		Not used	L710	2220591	CHOKING COIL
L713	2125215	FILTER COIL	L713		Not used
MISCELLANEOUS					
JK	2955671	8J SUB MINI CONNECTOR	JK	2955411	8J SUB MINI CONNECTOR
JP	2955681	7J SUB MINI CONNECTOR	JP	2998625	7J SUB MINI CONNECTOR
JT	2955691	4J SUB MINI CONNECTOR	JT	2990028	4J SUB MINI CONNECTOR
EK	2902267	8P SUB MINI PLUG PIN	EK	2663826	8P SUB MINI PLUG PIN
EP	2902266	7P SUB MINI PLUG PIN	EP	2663829	7P SUB MINI PLUG PIN
ET	2902263	4P SUB MINI PLUG PIN	ET	2663823	4P SUB MINI PLUG PIN

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